

Application No. 10/789,490  
Response to Office Action

Customer No. 01933

Listing of Claims:

Claim 1 (Canceled).

2. (Currently Amended) The battery pack according to  
Claim ~~1~~ 8, wherein:

the discharge control switch includes a discharge control  
field-effect transistor having a gate serving as a control  
5 terminal, and

the charge control switch includes a charge control  
field-effect transistor having a gate serving as a control  
terminal.

Claim 3 (Canceled).

4. (Currently Amended) The battery pack according to  
Claim ~~3~~ 2, wherein:

a gate voltage of the charge control field-effect transistor  
is controlled to adjust a drain current thereof so that the one  
5 charge control field-effect transistor performs both charge  
control and overcharge control.

5. (Currently Amended) The battery pack according to  
Claim ~~1~~ 8, ~~wherein: further comprising the charge protection~~  
~~circuit includes~~ a temperature detection unit.

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6. (Original) The battery pack according to Claim 5,  
wherein:

the temperature detection unit detects a temperature in  
discharge control through the discharge control switch and  
5 detects a temperature in the charge control through the charge  
control switch.

7. (Original) The battery pack according to Claim 6,  
wherein:

the temperature detection unit includes a thermistor.

8. (New) A battery pack with a charge control function,  
said battery pack comprising:

an overdischarge control circuit for detecting an  
overdischarge mode of a secondary battery and supplying an  
5 overdischarge detection signal to a discharge control switch when  
the overdischarge mode is detected;

an overcharge control circuit for detecting an overcharge  
mode of the secondary battery and supplying overcharge detection  
signal to a charge control switch when the overcharge mode is  
10 detected; and

a charge control circuit for performing charge control of  
the secondary battery by controlling the charge control switch.